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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/088,460	08/29/2002	Johanna Pekonen	4925-221PUS 3049	
27799	7590 09/22/2004		EXAMINER	
COHEN, PONTANI, LIEBERMAN & PAVANE			NGUYEN, TU X	
SUITE 1210			ART UNIT	PAPER NUMBER
NEW YORK, NY 10176			2684	a
			DATE MAILED: 09/22/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
•	10/088,460	PEKONEN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Tu X Nguyen	2684			
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with th	e correspondence address			
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATIO  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a  - If NO period for reply is specified above, the maximum statutory per  - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply be reply within the statutory minimum of thirty (30) iod will apply and will expire SIX (6) MONTHS found to become ABANDO	e timely filed  days will be considered timely.  rom the mailing date of this communication.  DNED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 29	9 August 2002.				
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-30 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-30</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) ☐ Claim(s) are subject to restriction an	d/or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Exam	iner.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the core		. ,			
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached Off	ice Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for fore a)⊠ All b)□ Some * c)□ None of:	ign priority under 35 U.S.C. § 119	(a)-(d) or (f).			
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the p		eived in this National Stage			
application from the International Bur		to consider			
* See the attached detailed Office action for a	ist of the certified copies not rece	ivea.			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summ	ary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mai	l Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date 3/15/02	08) 5) Notice of Informa 6) Other:	al Patent Application (PTO-152)			
J.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office	e Action Summary	Part of Paper No./Mail Date 9			



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#### **DETAILED ACTION**

#### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 2. Claims 1-17 and 30, are rejected under 35 U.S.C. 102(e) as being anticipated by Kalev (US Patent 6,308,071).

Regarding claim 1, Kalev discloses a method in a cellular communication system for reporting cell measurement results associated with cells of the system form a transceiver station via a radio interface between the transceiver station and a cell serving the transceiver station, comprising:

Defining a reporting order of the cells to be used by the transceiver station for reporting (see col.2 lines 51-55, "instruction" reads on "report order");

Performing cell measurements at the transceiver station for getting cell measurement results associated with at least some of the cells (see col.2 lines 12-14);

Selecting relevant cell measurement results from the performed cell measurements (see col.3 lines 29-31); and

Reporting the cell measurement results from the transceiver station in the defined reporting order (see col.3 lines 31-44).



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Regarding claim 2, Kalev discloses the measurement results are reported by information symbol strings containing a plurality of information symbols (see col.6 line 65 through col.7 line 2), the method further comprising a step of including an indication symbol into the measurement report string for indicating whether the following predefined number of symbols in the string includes the cell measurement results of a subsequent cell in the reporting order of the cells or whether the subsequent cell will not be reported in the measurement report string (see col.6 line 49 through col.7 line 5).

Regarding claim 3, Kalev discloses the cell measurement indication symbol indicates that it will not be followed by symbols reporting the measurements results, the following symbol included in the measurement report string is a further indication symbol designated for a cell following the subsequent cell in the reporting order of the cells (see col.7 lines 1-2).

Regarding claim 4, Kalev discloses receiving predefined information about the cells to the measured at the mobile station (see col.2 lines 41-44, "signal levels" reads on "predefined information"), and defining the reporting order based on said received information (see col.2 lines 51-55).

Regarding claims 5, Kalev discloses information comprises frequency of a broadcasting control channel and the identity of a transmitting base station of the cell to be measured (see col.5 lines 8-14 and col.6 lines 6-15).

Regarding claim 6, Kalev discloses at least part of the information is transmitted in a separate message via the broadcasting control channel (see col.6 lines 11-12)



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Regarding claims 7, Kalev discloses a step of associating each of the reported measurement results with respective cells at a control node of the cellular communication system (see col.4 lines 48-64).

Regarding claim 8, Kalev discloses the reported cell measurement result for a cell comprises signal level of a radio signal received at the transceiver station (see col.4 lines 36-40).

Regarding claim 9, Kalev discloses the reporting order is defined and the cell measurements are performed at the transceiver station for cells other than the serving cell (see col.3 lines 30-31).

Regarding claim 10, Kalev discloses the reporting order is based on the information received from the serving cell (see col.4 lines 36-40).

Regarding claims 11 and 14, Kalev discloses wherein rules for defining the reporting order are stored at the transceiver station (see col.2 lines 3-7 and lines 51-55, "predetermined time period" reads on "rules").

Regarding claims 12 and 15, Kalev discloses everything as claim 11 above. More specifically, Kalev discloses "the radio interface" (see 10, fig.2, "TRX" reads on "radio interface").

Regarding claim 13, Kalev discloses a step of changing rules for defining the reporting order (see col.6 lines 36-41, "updated" reads on "changing rules").

Regarding claims 16-17, Kalev discloses a step of changing the rules for the selection of the relevant cells (see col.3 lines 29-40).



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Regarding claim 30, Kalev discloses everything as claim 1 above. More specifically, Kaley discloses a network node (see 10, fig.2 and col.3 lines 25-26).

#### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 18-19, are rejected under 35 U.S.C. 103(a) as being unpatentable over Kalev (US Patent 6,308,071) in view of Parkkila (US Patent 6,223,037).

Regarding claims 18-19, Kalev fails to disclose "reference values".

Parkkila discloses "reference values" (see col.3 lines 24-25). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Kalev with the above teaching of Parkkila in order to provide the mobile station receives signals strength based on comparison with reference value in order to proceed to next step of operations.

5. Claims 20, 22-25 and 27, are rejected under 35 U.S.C. 103(a) as being unpatentable over Kaley in view of Anderson et al. (US Patent 5,594,949).

Regarding claims 20 and 27, Kalev discloses everything as claim 1 above. More specifically, Kalev discloses a transceiver station (see 10, fig.2 and col.3 lines 25-26); a



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cell serving the transceiver station via a radio interface (see cell A, fig.2 and col.3 lines 30-31); a plurality of further cells (see 7 cell A,B,C fig.2 and col.3 lines 30-31)

Kaely fails to disclose the transceiver station comprises control means for performing cell measurements.

Anderson disclose control means for performing cell measurements (see col.6 lines 3-16). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Kaley with the above teaching of Anderson et al. in order to provide a controller to report signal strength information to a base station either periodically or upon request from the base station.

Regarding claim 22, the modified Kalev discloses the measurement results are reported by information symbol strings containing a plurality of information symbols (see Kaley col.6 line 65 through col.7 line 2), the method further comprising a step of including an indication symbol into the measurement report string for indicating whether the following predefined number of symbols in the string includes the cell measurement results of a subsequent cell in the reporting order of the cells or whether the subsequent cell will not be reported in the measurement report string (see col.6 line 49 through col.7 line 5).

Regarding claim 23, the modified Kalev discloses the cell measurement indication symbol indicates that it will not be followed by symbols reporting the measurements results, the following symbol included in the measurement report string is a further indication symbol designated for a cell following the subsequent cell in the reporting order of the cells (see Kaley col.7 lines 1-2).



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Regarding claim 24, the modified Kalev discloses receiving predefined information about the cells to the measured at the mobile station (see Kaley col.2 lines 41-44, "signal levels" reads on "predefined information"), and defining the reporting order based on said received information (see col.2 lines 51-55).

Regarding claim 25, the modified Kalev discloses information comprises frequency of a broadcasting control channel and the identity of a transmitting base station of the cell to be measured (see Kaley col.5 lines 8-14 and col.6 lines 6-15).

Regarding claim 26, the modified Kalev discloses a step of associating each of the reported measurement results with respective cells at a control node of the cellular communication system (see Kaley col.4 lines 48-64).

6. Claims 21 and 28, are rejected under 35 U.S.C. 103(a) as being unpatentable over Kaley in view of Anderson et al. and further in view of Parkkila.

Regarding claims 21 and 28, the combined Kalev and Anderson et al. fails to disclose "two different cellular network systems".

Parkkila discloses "two different cellular network systems" (see col.3 lines 4-5). Therefore, It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Kalev and Anderson et al. with the above teaching of Parkkila in order to provide a broad search on channels or cells of other networks which are not included in maintaining the measurement link.



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### **Conclusion**

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed Tu Nguyen whose telephone number is 703-305-3427. The examiner can normally be reached on Monday through Friday from 8:30AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MAUNG NAY A, can be reached at (703) 308-7745. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

# Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

September 14, 2004

EDAN ORGAD

PATENT EXAMINER/TELECOMM